

WHAT IS CLAIMED IS:

1. A controller for controlling interruption and restarting of data writing to a recording medium, wherein
5 the data written to the recording medium is stored in a buffer memory, the controller comprising:

an encoder connected to the buffer memory, for encoding data which is read data from the buffer memory to generate recording data;

10 a clock generator connected to the encoder, for generating a system clock and providing the system clock to the encoder to operate the encoder;

a decoder connected to the clock generator, for decoding the data written on the recording medium to
15 generate decoded data; and

a system control circuit connected to the encoder, the clock generator, and the decoder, for deciding whether the encoding of the encoder and the decoding of the decoder are
20 synchronized and starting to write the recording data to the recording medium from the encoder when the encoding of the encoder and the decoding of the decoder are synchronized, subsequent to the interruption of the recording of data,

wherein, the clock generator suspends to provide the system clock to the encoder until the decoding catches up
25 with the encoding, when the decoding of the decoder is delayed from the encoding of the encoder.

2. The controller according to claim 1, wherein the clock generator generates a first system clock in accordance
30 with the decoding of the decoder, generates a second system clock based on a reference clock having a predetermined frequency, provides the first system clock to the encoder until the encoding of the encoder and the decoding of the

decoder are synchronized, and provides the second system clock to the encoder after the encoding and the decoding are synchronized.

5 3. The controller according to claim 2, wherein the decoder generates a pit clock based on the decoded data, and the clock generator generates the first system clock based on the pit clock.

10 4. The controller according to claim 3, wherein the clock generator includes a phase-locked loop (PLL) circuit connected to the decoder, wherein the PLL circuit generates the first system clock and the second system clock and selectively outputs the first and second system clocks.

15 5. The controller according to claim 3, wherein the clock generator includes:

 a first PLL circuit connected to the decoder to generate a first system clock;

20 a second PLL circuit for generating a second system clock based on a reference clock; and

 a clock control circuit connected to the first and second PLL circuits, wherein the clock control circuit selectively provides the first and second system clocks to
25 the encoder.